Tuxedo Touch™ and Tuxedo Touch™ WiFi Non-AlarmNet Compatible IP Cameras

The following is a list of Compatible IP Cameras. This is a list of the tested cameras, but it is not limited to the use of other manufacturer cameras. In order to use them, you must be able to provide the correct credentials below (see the troubleshooting section at the end of this document).

In general, Tuxedo is designed to support cameras with the following features: **UPnP** for camera discovery on LAN, **RTSP** streaming, **and MPEG4** for streaming on Tuxedo Touch(tm), **MJPEG** for streaming to browsers.

Every camera manufacturer makes their cameras slightly different, so it is not a guarantee that Tuxedo will work with every camera that supports the above network and codec features.

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Honeywell Non-AlarmNet IP Cameras

Honeywell HD3MDIP

- **MPEG4 Stream:** rtsp://IP/mpeg4

Note: The HD3MDIP/HD4MDIP cameras were tested and confirmed compatible.

Honeywell HD4MDIP

Cisco Compatible Cameras

Cisco Small Business **WVC210** Wireless-G PTZ Internet Video Camera - 2-way Audio Network camera - pan / tilt

Trendnet

P/T WiFi Cameras

SecurView Wireless N Day/Night Pan/Tilt/Zoom Internet Camera

TV-IP422WN (Version V1.0R)

- Night vision of up to 5 m (16 ft.)
- High speed wireless n connection
- Pan 330° side-to-side and tilt 105° up-and-down from any Internet connection
- Program motion detection recording and email alerts with complimentary software

SecurView Day/Night Pan/Tilt/Zoom Internet Camera

TV-IP422 (Version A1.0R)

- Night visibility of up to 5m (16.4ft)
- Secure a greater area with pan and tilt
- Pan 330° side-to-side and tilt 105° up-and-down from any Internet connection
- Program motion detection recording and email alerts with complimentary software

ProView Wireless N Pan/Tilt/Zoom Internet Camera

TV-IP612WN (Version 1.0R)

- 10x optical zoom, 16x digital zoom, and auto focus
- 4x greater coverage with wireless n
- Pan 330° side-to-side and tilt 115° up-and-down
- Program motion detection recording and email alerts with complimentary software
- One touch connection with Wi-Fi Protected Setup (WPS)

Trendnet *Tv-ip602wn* proview Wireless Pan/tilt/zoom Internet

P/T Cameras (non-WiFi)

SecurView Day/Night Pan/Tilt/Zoom Internet Camera

TV-IP422 (Version A1.0R)

- Night visibility of up to 5m (16.4ft)
- Secure a greater area with pan and tilt
- Pan 330° side-to-side and tilt 105° up-and-down from any Internet connection
- Program motion detection recording and email alerts with complimentary software

Fixed Cameras (WiFi and Non WiFi)

SecurView Wireless N Day/Night Internet Camera

TV-IP312WN (Version v1.0R)

- Night vision of up to 5 m (16 ft.)
- High speed wireless n connection
- Program motion detection recording and email alerts
- 2-way audio

Pro Fixed WiFi & PoE Cameras

ProView Wireless N Internet Camera

TV-IP512WN (Version v1.3R)

- Wireless n offers up to 4x greater coverage as compared to wireless g IP cameras
- View, record and manage advanced features from any Internet connection
- Program motion detection recording, email* alerts and more with complimentary software
- Features a removable lens, I/O ports, 2-way audio and Wi-Fi Protected Setup (WPS)

ProView PoE Internet Camera

TV-IP512P (Version v1.3R)

- No need to install this camera near a power source, power and data are received through a single Ethernet cable
- View streaming video, hear sounds and record from any Internet connection
- Program motion detection recording, email* alerts and more with complimentary software
- Features a removable lens, I/O ports and 2-way audio

Outdoor PoE Cameras and Analog Converters

SecurView Outdoor PoE Megapixel Day/Night Internet Camera

TV-IP322P (Version v1.0R)

- Outdoor installation ready with an IP66 weather proof rating
- H.264 Megapixel resolution at up to 1280 x 1024
- Night vision up to 20 meters (66 ft.)
- No need to install this camera near a power source, power and data are received through a single Ethernet cable
- Program motion detection recording and email alerts with complimentary software

[Single Channel PoE Analog to IP Video Encoder]

TV-VS1P (Version v1.0R)

- Provides advanced IP-based functionality to an analog CCTV security camera
- View a CCTV camera from any Internet connection and on compatible mobile phones
- No need to install this device near a power source, power and data are received through a single Ethernet cable
- Motion detection recording, email alerts, and alarm triggers
- Schedule recording sessions to a server with Samba client support

TV-VS1 (Version v1.0R)

Dome and Hi-Resolution PoE Cameras

[SecurView PoE Dome Internet Camera]

TV-IP252P (Version B1.xR)

- Tamper resistant interior wall and ceiling mount applications
- Pan and tilt adjustable fixed position camera
- No need to install this camera near a power source, power and data are received through a single Ethernet cable
- Program motion detection recording, email alerts and more with complimentary software

ProView Megapixel PoE Internet Camera

TV-IP522P (Version v1.0R)

- Megapixel resolution up to 1280 x 960
- No need to install this camera near a power source, power and data are received through a single Ethernet cable
- Program motion detection recording, recording schedules, email alerts and more with complimentary software
- Features a removable lens, I/O ports, 2-way audio and a mounting kit

Toshiba Cameras

Outdoor Dome

http://www.toshibasecurity.com/products/cameras/index.jsp

Toshiba IK-WR14a full HD 1080P outdoor IP camera

- H.264, JPEG, MPEG4 UPnP, RTSP
- RTSP “live.sdp” configurable

IP Network Megapixel Dome with Extreme Low Light Capabilities IK-WR12A

- JPEG, MPEG4 (dual codec), UPnP, RTSP

Outdoor/Indoor

IP Network Video Camera

- The new IK-WB30A IP camera features an advanced 2 megapixel CMOS sensor, Electronic Pan-Tilt-Zoom (ePTZ), true Day-Night imaging and quad streaming MPEG-4 and MJPEG streams.
- JPEG/MPEG4 (5 steps)
- UPnP, RTSP

IP Bullet Camera

- Toshiba IK-WB70A IP network bullet camera features an extra wide dynamic range CMOS sensor that yields superior images in virtually any lighting condition.
- Plus, because it has advanced day/night capabilities and IR illumination with coverage up to 15 meters, you can use it with total confidence indoors or outdoors for 24-hour video surveillance.
- JPEG/MPEG4 (5 steps), UPnP, RTSP

IP Bullet Camera IK-WB80A

- Compact and stylish in appearance, extremely robust, lightweight and designed for easy installation, the IK-WB80A is loaded with features that make it the ideal bullet camera for all day, all night 24-hour outdoor surveillance.
- JPEG, MPEG4 (dual codec), UPnP, RTSP

Indoor Dome

Wired or wireless Pan/Tilt Network Camera

- IK-WB16A/IK-WB16A-W
- JPEG, MPEG4 UPnP, RTSP

Indoor IP Mini-Dome Camera IK-WD12A, IK-WD14A

- The new IK-WD12A camera combines IP network technology with the mini-dome footprint that installers and customers are familiar with. Affordable, high-quality and reliable IP video surveillance for indoor use.
- JPEG, MPEG4, RTSP “live.sdp”, UPnP

IP Network Mini-Dome IK-WD01A

- JPEG, MPEG4 (dual codec), UPnP, RTSP

Suggested Troubleshooting

Honeywell Intrusion Technical Support Limitations

Honeywell Intrusion Technical Support will only support the in depth configuration and troubleshooting of the AlarmNet Cameras:

- IPCAM-WI
- IPCAM-PT
- IPCAM-WO

Note:

Currently the AlarmNet ACU is not compatible; your only option is to use the suggested ACUs above.

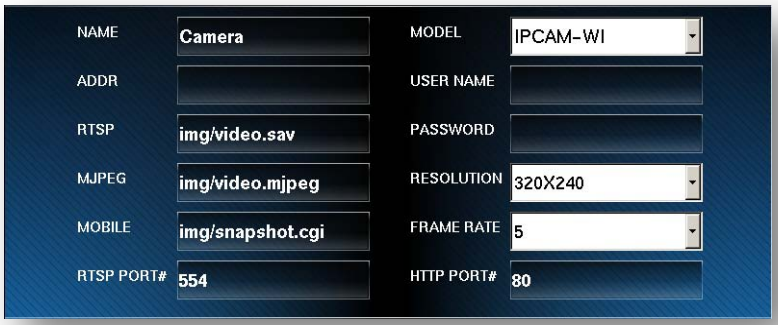
Required Information

- RTSP Path (Real Time Streaming Protocol)
- The Tuxedo Touch™ only support MPEG4 streaming protocol.
- RTSP Port
- Confirm the camera has an IP Address; this is to verify network connectivity.
- Can you access the video via the internet?
- This may be software provided by the manufacturer or using a QuickTime or VLC Media players.
- You may also be able to configure it by typing in the IP Address of the camera
- Make sure the cameras discovery option is enabled.

Notes:

- The ability to send to the iPad is not compatible as of revision 4.1.08R.
- This feature will be added at a later date, it required mpeg4 format which is currently not compatible for remote viewing
- Verify the revision of the cameras is at the latest firmware
- Verify the Tuxedo Touch™ has the latest firmware: 4.1.08R.
- This can be found on MyWebTech
- Tuxedo Touch™ Image resolution recommendations:
- Single Video Stream:
    - 640X480 at 8 Frames Per Second (FPS)
    - 320X240 at 15fps
- Quad view, each camera should be set to 320x240 at 5(fps)

Tuxedo Touch™ Camera Setup Screen



Tuxedo Touch™ WiFi Camera Setup Screen

Field Name	Definition and Notes
Name	Customizable Name for the Camera
Addr	Enter the IP Address of the camera. • You may have to use software for the camera to locate it. (i.e. Honeywell cameras use the *"Honeywell IP Utility"*
RTSP	Enter the RTSP Path
MJPEG	Enter MJPEG Path. • This is the path necessary for streaming video on an Apple iPad
Mobile	Enter the Mobile Path. • This additional option may be needed to stream video on mobile devices. See the manufacturer of the camera for more information.
RTSP Port#	Enter the RTSP Port the camera resides on
Model	Choose *'Other'*
User Name	Your camera may require a username and password for the Tuxedo Touch™ and Tuxedo Touch WiFi to access it
Password	
Resolution	Choose the desired resolution and frame per second rate: • Single Video Stream: o 640X480 at 8 Frames Per Second (FPS) o 320X240 at 15fps • Quad view, each camera should be set to 320x240 at 5(fps)
Frame Rate	
HTTP Port#	The HTTP Port field is for remote viewing of the camera. • This is the port that must be forwarded to view the camera remotely. Currently the Tuxedo Touch allows you to view one camera remotely

Frequently Asked Questions

Can I view the camera on multiple Tuxedo Touch™ keypads?

- In most cases, yes. Most of the cameras support multi streams.

When I try to launch the camera it gives me a message of "Video Stopped"

- Verify the cameras local ip address.
- This happens when the camera's rtsp path and port are incorrect.
- Verify that the rtsp path is entered as
  - The mpeg4 command (example: "mpeg4")
  - Refer to the cameras user manual for specific RTSP command
- Verify the login/password entered match the camera's
- Set the camera's resolution and frame rate recommended in Tuxedo's manual.

Why will video not stream on my iPad?

- Because the iPad requires MJPEG Streaming, and the Tux requires MPEG4 streaming, the camera must stream both MPEG4 and MJPEG protocol to view the video on Tux and on an iPad.
- If the camera does not provide MJPEG streaming you will be able launch the camera on the Tuxedo Touch™, but not the iPad.
- If you attempt to view a camera that does not support MJPEG through the iPad you will be able to pull up the tuxedo interface, however the video will display a "Question Mark" in the video window.

Will a camera with H.264 or MJPEG work with these keypads?

- Camera's currently must steam using the MPEG4 protocol for the Tuxedo Touch™ or Tuxedo Touch™ WiFi video viewing. H.264 or MJPEG streaming protocols cannot be viewed on Tuxedo as of this time.
- Note: Many cameras support multiple protocols and you may have to enable MPEG4 streaming protocol in the camera in order to view the camera from the Tuxedo.

Conclusion

Honeywell has provided the flexibility to allow a variety of cameras to be compatible. Every camera manufacturer makes their cameras slightly different, so it is not a guarantee that Tuxedo will work with every camera that supports the above network and codec features.

If you are using a camera that is not on this list, evaluate the camera is working properly with Tuxedo before commit to a job. Certain network environment may impact video connection between Tuxedo and camera, hence can affect video performance.

- To verify, access the camera through a browser or the camera's software (consult the user's manual of the camera for the proper procedure).
- If successful, verify the rtsp port and path is correct.
- If the camera is not viewable through the Tuxedo Touch™ after verifying these settings, then it is not compatible with Tuxedo Touch™.